

NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	

```

NN      NN      CCCCCCCC PPPPPPPP SSSSSSSS TTTTTTTTTT AAAAAA CCCCCCCC 000000 NN      NN
NN      NN      CCCCCCCC PPPPPPPP SSSSSSSS TTTTTTTTTT AAAAAA CCCCCCCC 000000 NN      NN
NN      NN      CC      PP      PP      SS      TT      AA      AA      CC      00      00      NN      NN
NN      NN      CC      PP      PP      SS      TT      AA      AA      CC      00      00      NN      NN
NNNN    NN      CC      PP      PP      SS      TT      AA      AA      CC      00      00      NNNN    NN
NNNN    NN      CC      PP      PP      SS      TT      AA      AA      CC      00      00      NNNN    NN
NN      NN      CC      PPPPPPPP SSSSSS      TT      AA      AA      CC      00      00      NN      NN
NN      NN      CC      PPPPPPPP SSSSSS      TT      AA      AA      CC      00      00      NN      NN
NN      NN      CC      PP      SS      TT      AA      AAAAAAAAAA CC      00      00      NN      NN
NN      NN      CC      PP      SS      TT      AA      AAAAAAAAAA CC      00      00      NN      NN
NN      NN      CC      PP      SS      TT      AA      AA      CC      00      00      NN      NN
NN      NN      CC      PP      SS      TT      AA      AA      CC      00      00      NN      NN
NN      NN      CC      PP      SS      TT      AA      AA      CC      00      00      NN      NN
NN      NN      CCCCCCCC PP      SSSSSSSS TT      AA      AA      CCCCCCCC 000000 000000 NN      NN
NN      NN      CCCCCCCC PP      SSSSSSSS TT      AA      AA      CCCCCCCC 000000 000000 NN      NN

```

```

LL      IIIIII SSSSSSSS
LL      IIIIII SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

```
0001 0 %TITLE 'Connect Parse States and Data'
0002 0 MODULE NCPSTACON (IDENT = 'V04-000', LIST(NOOBJECT)) =
0003 1 BEGIN
0004 1
0005 1
0006 1 *****
0007 1 *
0008 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0009 1 *   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0010 1 *   ALL RIGHTS RESERVED.
0011 1 *
0012 1 *   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0013 1 *   ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0014 1 *   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0015 1 *   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0016 1 *   OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0017 1 *   TRANSFERRED.
0018 1 *
0019 1 *   THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0020 1 *   AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0021 1 *   CORPORATION.
0022 1 *
0023 1 *   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0024 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0025 1 *
0026 1 *
0027 1 *****
0028 1
0029 1
0030 1 ++
0031 1 FACILITY:      Network Control Program (NCP)
0032 1
0033 1 ABSTRACT:
0034 1
0035 1       States and data for the parsing of NCP Connect command
0036 1
0037 1 ENVIRONMENT:   VAX/VMS Operating System
0038 1
0039 1 AUTHOR:       Bob Grosso      , CREATION DATE: March 16, 1983
0040 1
0041 1 MODIFIED BY:
0042 1
0043 1       V03-001 RPG0001      Bob Grosso      dd-mmm-1983
0044 1 --
```

```

: 46      0045 1 %SBTTL 'Definitions'
: 47      0046 1
: 48      0047 1
: 49      0048 1 INCLUDE FILES:
: 50      0049 1
: 51      0050 1
: 52      0051 1 LIBRARY 'LIB$:NCPLIBRY';
: 53      0052 1 LIBRARY 'LIB$:NMALIBRY';
: 54      0053 1 LIBRARY 'SYSSLIBRARY:TPAMAC';
: 55      0054 1
: 56      0055 1
: 57      0056 1 EXTERNAL REFERENCES:
: 58      0057 1
: 59      0058 1
: 60      0059 1 ACT_DFN ! External symbols for action routines
: 61      0060 1 EXTERNAL
: 62      0061 1 ACT$VRB CONNECT, ! Routine to perform connect
: 63      0062 1 NCP$GL_NOPARMS; ! Mark that entity does not require parameters
: 64      0063 1
: 65      0064 1
: 66      0065 1 LITERALS
: 67      0066 1
: 68      0067 1
: 69      0068 1 LITERAL
: 70      0069 1 NO_PARM_REQ = 1; ! Mark that an entity does not require
: 71      0070 1 ! a parameter so that the check in
: 72      0071 1 ! NCPVRBACT can be disabled.
: 73      0072 1
```

```
.. 75      0073 1 %SBTTL 'Parameter blocks'
.. 76      0074 1
.. 77      0075 1
.. 78      0076 1 BIND DATA:
.. 79      0077 1
.. 80      0078 1
.. 81      0079 1
.. 82      0080 1 Parameter Blocks
.. 83      0081 1
.. 84      0082 1
.. 85      P 0083 1 BUILD_PCL
.. 86      P 0084 1
.. 87      P 0085 1 (CON,
.. 88      P 0086 1
.. 89      P 0087 1 SLI, TKN, PCNO_SLI,
.. 90      P 0088 1 SPW, HXPS, PCNO_SPA,
.. 91      P 0089 1 !! LFL, TKN, PCNO_LOA,
.. 92      P 0090 1 PHA, NIADR, PCNO_PHA,
.. 93      P 0091 1
.. 94      P 0092 1 ,END, , ,
.. 95      P 0093 1
.. 96      0094 1 )
.. 97      0095 1
.. 98      0096 1
.. 99      P 0097 1 BUILD_PBK
100      P 0098 1
101      P 0099 1 (CON,
102      P 0100 1
103      P 0101 1 NOD, NADR, , VRB_ENT,
104      P 0102 1 SLI, TKN, ,
105      P 0103 1 SPW, HXPS, ,
106      P 0104 1 !! LFL, TKN, ,
107      P 0105 1 PHA, NIADR, ,
108      P 0106 1
109      0107 1 )
110      0108 1
111      P 0109 1 BUILD_SDB
112      P 0110 1
113      0111 1 (CON, NMA$C_ENT_NOD, VRB_ENT, CON)
.. 114      0112 1
```

```
: 116      0113 1 %SBTTL 'Prompt strings'
: 117      0114 1
: 118      0115 1
: 119      0116 1
: 120      0117 1
: 121      0118 1
: 122      0119 1 BIND
: 123      0120 1
: 124      P 0121 1 PROMPT_STRINGS
: 125      P 0122 1 (CON,
: 126      P 0123 1
: 127      P 0124 1 ENT, 'NODE node-id, VIA circuit-name: ',
: 128      P 0125 1 NOD, 'Node Console to Connect (node-name, address): ',
: 129      P 0126 1 VIA, 'Circuit to use (circuit-name): ',
: 130      P 0127 1
: 131      0128 2 )
: 132      0129 1 ;
```

```
134 0130 1 %SBTTL 'State Table Entry'
135 0131 1
136 0132 1 $INIT_STATE (NCP$G_STTBL_CON, NCP$G_KYTBL_CON);
137 0133 1
138 0134 1
139 0135 1 Connect Console Command
140 0136 1
141 0137 1
142 0138 1
143 0139 1 Dispatch to entity types and prompt if end of string
144 0140 1
145 0141 1
146 0142 1
147 0143 1 Connect command
148 0144 1
149 0145 1
150 P 0146 1 COMMAND PROMPT
151 P 0147 1 (CON, ENT, NCP$_INVKEY,
152 P 0148 1
153 P 0149 1 ( 'NODE', ST_CON_NOD),
154 P 0150 1 ('VIA', ST_CON_VIA)
155 P 0151 1
156 0152 1 )
157 0153 1
158 0154 1
159 0155 1 Obtain Node ID
160 0156 1
161 P 0157 1 COMMAND PROMPT
162 P 0158 1 (CON, NOD, NCP$_INVVAL,
163 P 0159 1
164 P 0160 1 ( (SE_NODE_ID), , ACT$SAVPRM, , , PBK$G_CON_NOD)
165 0161 1
166 0162 1
167 P 0163 1 $STATE (,
168 P 0164 1 ( (ST_CON_PRM) )
169 0165 1 );
170 0166 1
171 P 0167 1 $STATE (,
172 P 0168 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_CONNECT, , , SDB$G_CON)
173 0169 1 );
174 0170 1
175 0171 1
176 0172 1
177 0173 1
178 0174 1 Connect over specified circuit
179 0175 1
180 P 0176 1 COMMAND PROMPT
181 P 0177 1 (CON, VIA, NCP$_INVVAL,
182 P 0178 1
183 P 0179 1 ( (SE_CIRC_ID), , ACT$SAVPRM, NMA$C_ENT_CIR, NCP$GL_OPTION, PBK$G_CON_SLI)
184 0180 1
185 0181 1
186 P 0182 1 $STATE (,
187 P 0183 1 ( (ST_CON_PRM) )
188 0184 1 );
189 0185 1
190 P 0186 1 $STATE (,
```

NCPSTACON
V04-000

Connect Parse States and Data
State Table Entry

E 14
16-Sep-1984 00:23:51
14-Sep-1984 12:48:20

VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPSTACON.B32;1

Page 6
(5)

:	191				
:	192	P	0187	1	(TPAS_EOS, TPAS_EXIT, ACT\$VRB_CONNECT, , , SDB\$G_CON)
:	193		0188	1);
:			0189	1	

```
: 195      0190 1 %SBTTL 'Connect Parameters'
: 196      0191 1
: 197      0192 1
: 198      0193 1
: 199      0194 1
200      0195 1
201      P 0196 1 $STATE (ST_CON_PRM,
202      P 0197 1 (TPAS_EOS, TPAS_EXIT, ACT$SAVPRM, , , PBK$G_VRB_ALL),
203      P 0198 1 (TPAS_LAMBDA)
204      0199 1 );
205      0200 1
206      0201 1
207      0202 1 %SBTTL 'Dispatch States'
208      0203 1
209      0204 1
210      0205 1
211      0206 1
212      0207 1
213      P 0208 1 $STATE (ST_CON_PRC,
214      P 0209 1 DISPATCH_STATES
215      P 0210 1 (CON,
216      P 0211 1
217      P 0212 1
218      P 0213 1 !! LFL, 'FROM',
219      P 0214 1 PHA, 'PHYSICAL',
220      P 0215 1 SPW, 'SERVICE',
221      P 0216 1 SLI, 'VIA',
222      P 0217 1
223      P 0218 1 )
224      P 0219 1
225      P 0220 1 (TPAS_EOS, TPAS_EXIT)
: 226      0221 1 );
```

NCPSTACON
V04-000

Connect Parse States and Data
Process States

G 14
16-Sep-1984 00:23:51
14-Sep-1984 12:48:20

VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPSTACON.B32;1

Page 8
(7)

```
: 228      0222 1 %SBTTL 'Process States'
: 229      0223 1
: 230      0224 1
: 231      0225 1
: 232      0226 1
: 233      0227 1
: 234      P 0228 1 PROCESS_STATES
: 235      P 0229 1 (CON,
: 236      P 0230 1
: 237      P 0231 1 !! LFL, 'FILE',
: 238      P 0232 1 PHA, 'ADDRESS',
: 239      P 0233 1 SPW, 'PASSWORD',
: 240      P 0234 1 SLI, 'CIRCUIT',
: 241      P 0235 1
: 242      0236 1 )
: 243      0237 1
```

NCPSTACON
V04-000

Connect Parse States and Data
Subexpressions

H 14
16-Sep-1984 00:23:51
14-Sep-1984 12:48:20

VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPSTACON.B32;1

Page 9
(8)

:	245	0238	1	%SBTTL	'Subexpressions'
:	246	0239	1		
:	247	0240	1	:	
:	248	0241	1	:	Subexpressions
:	249	0242	1	:	
:	250	0243	1		
:	251	P 0244	1		SUB EXPRESSIONS
:	252	P 0245	1		(CON,
:	253	P 0246	1		
:	254	P 0247	1	!!	LFL, (SE_FILE_ID),
:	255	P 0248	1		PHA, (SE_NI_ADR),
:	256	P 0249	1		SPW, (SE_HEX_PSW),
:	257	P 0250	1		SL1, (SE_CIRC_ID),
:	258	P 0251	1		
:	259	0252	1)
:	260	0253	1		

```

: 262      0254 1 %SBTTL 'Define Subexpressions from Library'
: 263      0255 1
: 264      0256 1 !
: 265      0257 1 ! Define subexpressions from library
: 266      0258 1 !
: 267      0259 1 !
: 268      0260 1 !! SEM_FILE_ID      ! File id strings
: 269      0261 1 SEM_HEX_PSW      ! Hex password
: 270      0262 1 SEM_CIRC_ID      ! Circuit name strings
: 271      0263 1 SEM_LINE_ID      ! Line id
: 272      0264 1 SEM_NODE_ID      ! Node id strings
: 273      0265 1 SEM_NI_ADR      ! NI Address
: 274      0266 1 SEM_QUOT_STR      ! Quoted strings

```

NCPSTACON
V04-000

Connect Parse States and Data
Object Listing of Parse Table

J 14
16-Sep-1984 00:23:51
14-Sep-1984 12:48:20

VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPSTACON.B32;1

Page 11
(10)

:	276	0267	1	%SBTTL	'Object Listing of Parse Table'	
:	277	0268	1			
:	278	0269	1	END	!End of module	
:	279	0270	0	ELUDOM		

0269

AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY